



14 February 1964

Dear John:

Attached is best sonic boom information we have to date. This is of increasing importance in view of developments with General Hubbard this week.

Sincerely,

Kelly

enc.

100-645
COPY

STATINTL

TO:

7 Feb. 1964

FROM:

SUBJ: Sonic Boom Program

REF: Msg. 0689 - HQ to LAC, Dated 5 Feb. 64.

During the period of 22 thru 24 August 63 sonic boom pressure measurements were obtained on eleven runs. Data points were from 41,000' MSL to 64,000' and 1.4 Mn to 2.15 Mn. Curves prepared by Dominic Maglieri of NASA are attached.

Mr. Maglieri felt that the above data points were sufficient for the limited flight envelope at that time. It had been planned to obtain higher speed points during the "Race Track" program at a later date. Our present status still precludes doing the "Race Track" program. Points could be obtained during the 121 test flights but would be difficult to coordinate.

Pressure measurements are taken directly under the aircraft and along a line at right angles to the flight path. Stations and observers are placed at intervals along this line. On the last test the farthest observer was 33 miles out. With the aircraft higher, the observers must be out farther. On a south heading the local topography is such that placement of stations and observers without mountain interference is difficult. The east-west heading is much better for observer placement and coordination.

It appears to me as though if we were to wait until more than one aircraft is up to speed, the program could be completed in a two or three day period. This would minimize tying up the NASA personnel.

As mentioned above, additional data could be obtained from 121 flights if the requirements justify the delays and inconvenience to Mr. Maglieri and crew.

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